DAIKIN

technical data

air conditioning systems

RXG-C

Pair Application, Inverter Controlled Unit

Split Sky Air

Split - Sky Air

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

Specifications are subject to change without prior notice.

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RXG-C

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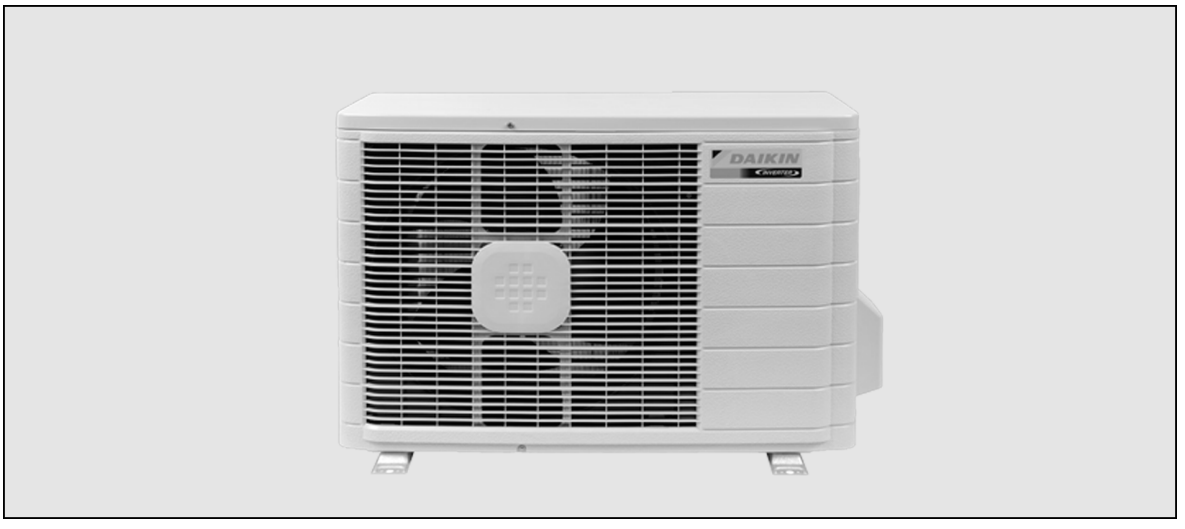
OPTIMISED DESIGN R-410A

1 Features

1

Outdoor units for pair application

- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall.
- They are fitted with a swing compressor, renowned for its low noise and high energy efficiency.



2 Specifications

TECHNICAL SPECIFICATIONS					
OUTDOOR UNITS				**RXG25CVMB**	**RXG35CVMB**
DIMENSIONS	Unit	H	mm	550	
		W	mm	765	
		D	mm	285	
WEIGHT			kg	32	
COLOUR	Unit			Ivory white	
SOUND LEVEL	Sound pressure (1) (H)	cool/heat	dB(A)	46/43	47/44
		cool/heat	dB(A)	47/44	48/45
	Sound power (2) (H)	cool/heat	dB(A)	61/*	62/*
FAN	Air flow rate (H)	cooling	m^3/min	31.3/22.4	31.3/22.4
		heating	m^3/min	28.1/22.4	28.1/22.4
	Speed (H)	cooling	rpm	810/620	810/620
		heating	rpm	810/660	810/660
	Mode			Propeller fan	
	Motor output		W	35	
HEAT EXCHANGER	Type			WH fin, Φ 7Hi-XA tube	
	Rows x stages x fin pitch		mm	2 x 24 x 1.4	
REFRIGERANT CIRCUIT	Refrigerant type			R-410A	
	Refrigerant charge		kg	1.00	
	Maximum allowable distance between indoor and outdoor		m	20	
	Maximum allowable level difference		m	15	
	Refrigerant control			Motor operated expansion valve	
COMPRESSOR	Type			Hermetically sealed swing type	
	Model			1YC23NXD#A	
	Motor output		W	600	
	Oil type			FVC50K	
	Oil charge volume		ℓ	0.375	
PIPING CONNECTIONS		liquid	mm	Φ 6.4	
		gas	mm	Φ 9.5	
		drain	mm	Φ 18.0	
INSULATION MATERIAL	Heat insulation tape			Both liquid and gas pipes	

* This information was not available at the time of publication.

ELECTRICAL SPECIFICATIONS					
OUTDOOR UNITS				**RXG25CVMB**	**RXG35CVMB**
CURRENT	Nominal running current	cooling/heating	A	3.26/4.36	4.76/5.06
	Max. running current	cooling/heating	A	Please refer to electrical data	
	Starting current	cooling/heating	A	4.5	5.2

OUTDOOR UNITS			**RXG25CVMB**	**RXG35CVMB**
POWER SUPPLY			VM	VM
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		1~	1~
	Frequency	Hz	50	50
	Voltage	V	230	230

NOTES

1 The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 8 of this chapter.

2 The sound power level is an absolute value indicating the "power" which a sound source generates.

2 Specifications

2 ELECTRICAL DATA

RXG+FTXG25C

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG25CVMBW	RXG25CVMB	50-230	Max. 50Hz-253V Min. 50Hz-207V	12	15	49	3.2	35	0.22	40	0.50
FTXG25CVMBS	RXG25CVMB	50-230	Max. 50Hz-253V Min. 50Hz-207V	12	15	49	3.2	35	0.22	409	0.50

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RXG+FTXG35C

Representative unit combination		Power supply				Comp.		OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RHz	RLA	W	FLA	W	FLA
FTXG35CVMBW	RXG35CVMB	50-230	Max. 50Hz-253V Min. 50Hz-207V	12	15	80	4.7	35	0.22	40	0.50
FTXG35CVMBS	RXG35CVMB	50-230	Max. 50Hz-253V Min. 50Hz-207V	12	15	80	4.7	35	0.22	40	0.50

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SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (A)
RHz : Rated operating frequency(Hz)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)

NOTES

1 RLA is based on the following conditions:
Indoor temperature 27°CDB/19°CWB
Outdoor temperature 35°CDB
2 Maximum allowable voltage variation between phases is 2%
3 Select wire size based on the larger value of MCA.
4 Instead of fuse, use circuit breaker

3 Capacity tables

RXG + FTXG25C

AFR	7.4
BF	0.18

Cooling **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	2.50	1.84	0.46	2.44	1.82	0.52	2.33	1.76	0.57	2.28	1.74	0.59	2.21	1.70	0.61	2.10	1.64	0.66
16.0	22	2.68	1.84	0.48	2.56	1.79	0.52	2.44	1.73	0.57	2.40	1.71	0.59	2.33	1.68	0.62	2.21	1.63	0.66
18.0	25	2.79	1.93	0.48	2.68	1.88	0.53	2.56	1.82	0.57	2.51	1.80	0.59	2.44	1.77	0.62	2.33	1.72	0.66
19.0	27	2.85	2.03	0.48	2.73	1.98	0.53	2.62	1.93	0.57	2.57	1.91	0.59	2.50	1.88	0.62	2.38	1.83	0.67
22.0	30	3.02	1.95	0.49	2.91	1.91	0.53	2.79	1.87	0.58	2.74	1.85	0.60	2.67	1.82	0.62	2.56	1.78	0.67
24.0	32	3.14	1.90	0.49	3.02	1.86	0.54	2.90	1.82	0.58	2.86	1.81	0.60	2.79	1.78	0.63	2.67	1.74	1.67

Heating **230V [50Hz]**

AFR	7.7

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0	2.27	0.70	2.65	0.74	3.03	0.77	3.49	0.81	3.80	0.84
18.0	2.22	0.71	2.60	0.74	2.99	0.78	3.45	0.82	3.75	0.84
20.0	2.17	0.72	2.56	0.75	2.94	0.78	3.40	0.83	3.71	0.85
21.0	2.15	0.72	2.53	0.75	2.92	0.79	3.38	0.83	3.68	0.86
22.0	2.12	0.72	2.51	0.76	2.89	0.79	3.35	0.83	3.66	0.86
24.0	2.08	0.73	2.46	0.77	2.85	0.80	3.31	0.84	3.61	0.87

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RXG + FTXG35C

AFR	7.9
BF	0.18

Cooling **230V [50Hz]**

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			30			32			35			40		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20	2.67	1.97	0.56	2.67	1.97	0.65	2.67	1.97	0.74	2.67	1.97	0.79	2.67	1.97	0.86	2.67	1.97	0.99
16.0	22	3.39	2.23	0.72	3.39	2.23	0.83	3.39	2.23	0.96	3.36	2.21	1.01	3.26	2.17	1.05	3.10	2.08	1.13
18.0	25	3.91	2.49	0.82	3.75	2.41	0.90	3.58	2.34	0.98	3.52	2.31	1.01	3.42	2.26	1.06	3.26	2.18	1.14
19.0	27	3.99	2.60	0.82	3.83	2.52	0.90	3.66	2.44	0.98	3.60	2.41	1.01	3.50	2.37	1.06	3.34	2.30	1.14
22.0	30	4.23	2.49	0.83	4.07	2.42	0.91	3.90	2.36	0.99	3.84	2.33	1.02	3.74	2.29	1.07	3.58	2.23	1.15
24.0	32	4.39	2.42	0.84	4.23	2.35	0.91	4.07	2.29	0.99	4.00	2.27	1.02	3.90	2.23	1.07	3.74	2.17	1.15

Heating **230V [50Hz]**

AFR	7.9

Indoor	Outdoor temperature (°CWB)									
EDB	-10		-5		0		6		10	
(°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
16.0	2.80	0.96	3.27	1.01	3.75	1.06	4.32	1.11	4.70	1.15
18.0	2.74	0.98	3.21	1.02	3.69	1.07	4.26	1.12	4.64	1.16
20.0	2.68	0.99	3.16	1.03	3.63	1.08	4.20	1.14	4.57	1.17
21.0	2.65	0.99	3.13	1.04	3.60	1.08	4.17	1.14	4.43	1.14
22.0	2.62	1.00	3.10	1.04	3.57	1.09	4.14	1.15	4.30	1.12
24.0	2.57	1.01	3.04	1.05	3.51	1.10	4.02	1.14	4.02	1.06

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SYMBOLS

AFR	: Air flow rate	(m^3/min)
BF	: Bypass factor	
EWB	: Entering wet bulb temp.	(°CWB)
EDB	: Entering dry bulb temp.	(°CDB)
TC	: Total cooling capacity	(kW)
SHC	: Sensible heating capacity	(kW)
PI	: Power input	(kW)

Caution:
TC and SHC are shown by kW

NOTES

1 Ratings shown are net capacities which include a deduction for indoor fan motor heat

2 shows nominal (rated) capacities and power input.

3 TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)

4 SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= 0.02*AFR (m^3/min.)*(1-BF)*(DB*-EDB)
Add SHC* to SHC.

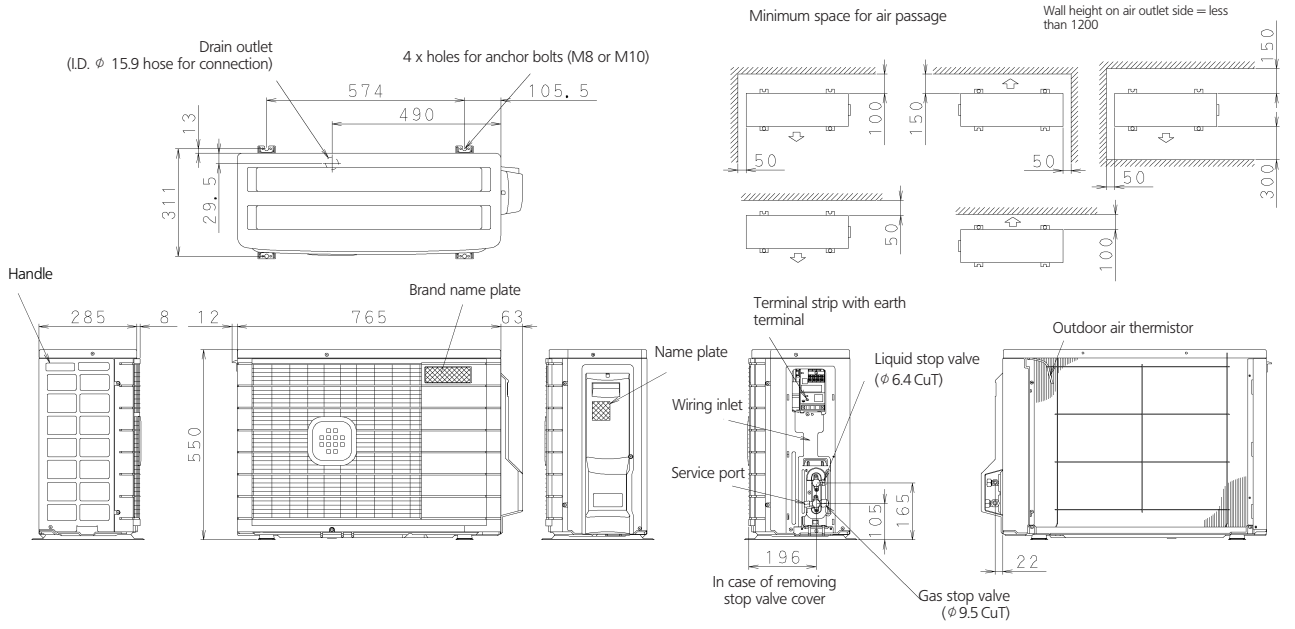
5 Capacities are based on following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

6 Air flow rate (AFR) and Bypass factor (BF) are taburated above.

4 Dimensional drawings

RXG25,35C

unit (mm)



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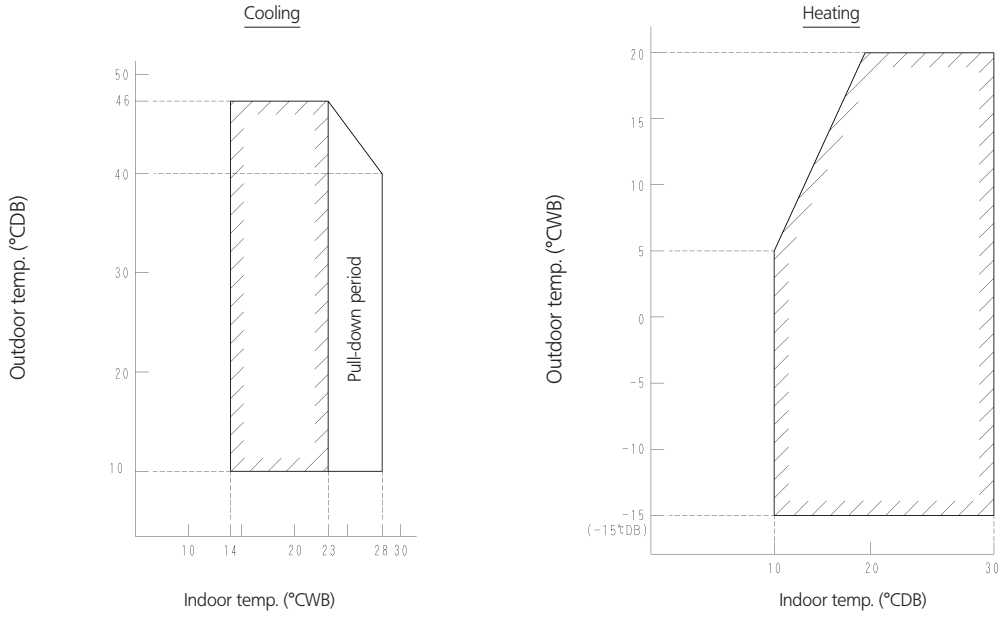
5 Operation range

RXG25,35C



Notes:
The graphs are based on the following conditions:
- Equivalent piping length 7.5 m
- Level difference 0 m
- Air flow rate high

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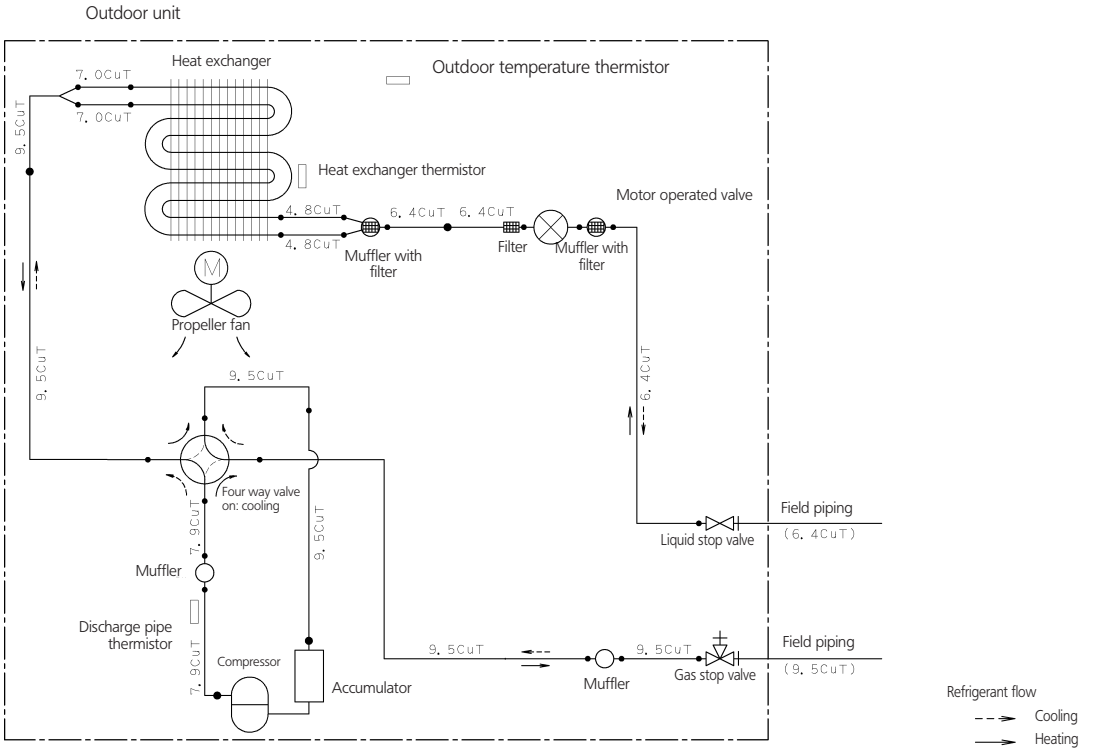
6 Piping diagrams

6

RXG25,35C



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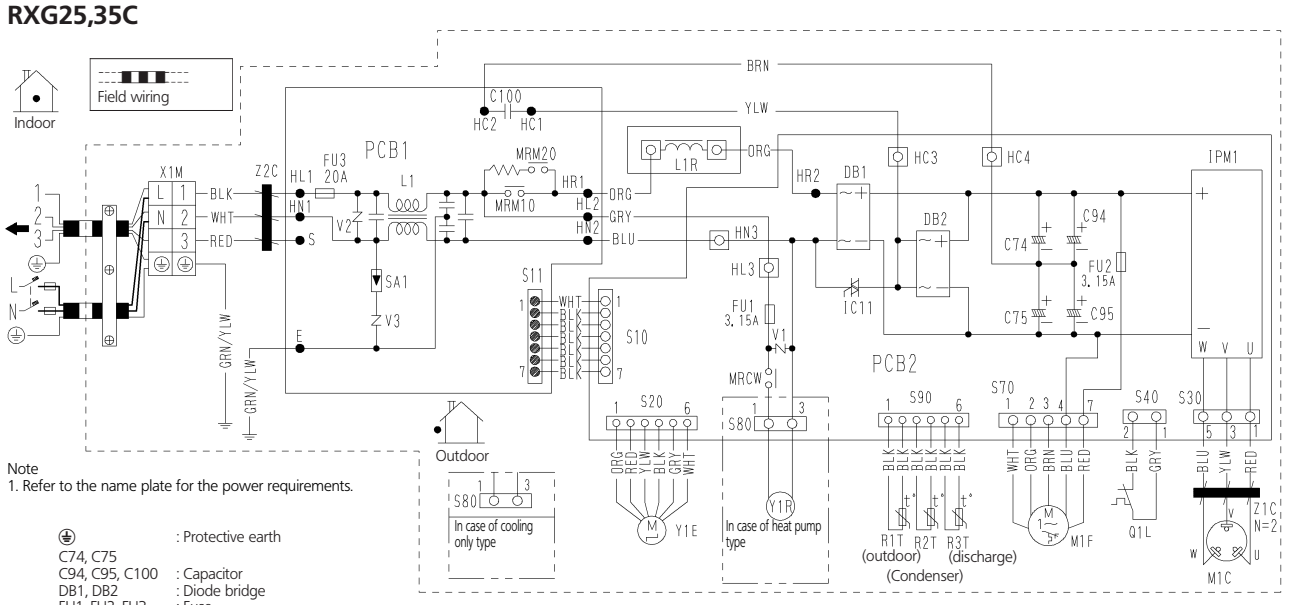
7 Wiring diagrams

RXG25,35C



Note
1. Refer to the name plate for the power requirements.

⏚	: Protective earth
C74, C75	
C94, C95, C100	: Capacitor
DB1, DB2	: Diode bridge
FU1, FU2, FU3	: Fuse
LC11	: Solid state relay
LPM1	: Intelligent power module
L	: Live
L1	: Coil
L1R	: Reactor
M1C	: Compressor motor
M1F	: Fan motor
MRCW, MRM10, MRM20	: Magnetic relay
N	: Neutral
PCB1, PCB2	: Printed circuit board
Q1L	: Overload protector
R1T, R2T, R3T, S10 S11, S20, S30, S40 S70, S80, S90, S91	: Thermistor
HC3, HC4, HL3, HN3	: Connector
SA1	: Surge arrester
Z1C, Z2C	: Ferrite core
X1M	: Terminal strip
V1, V2, V3	: Varistor
Y1E	: Electronic expansion valve coil
Y1R	: Reversing solenoide valve coil

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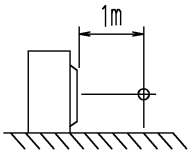
8 Sound level

8-1 Sound level data

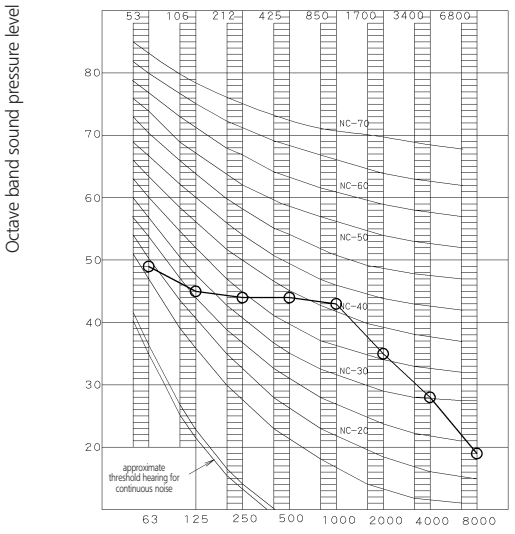
Cooling only / Heat pump:

Model	Sound pressure level			Sound power level (Cooling)
	230V, 50Hz		Measuring location	
	Cooling (H/L)	Heating (H/L)		
RXG25CVMB	46/43	47/44		61
RXG35CVMB	47/44	48/45		62

8 Sound level

8-2 Sound pressure spectrum

RXG25C (Cooling)



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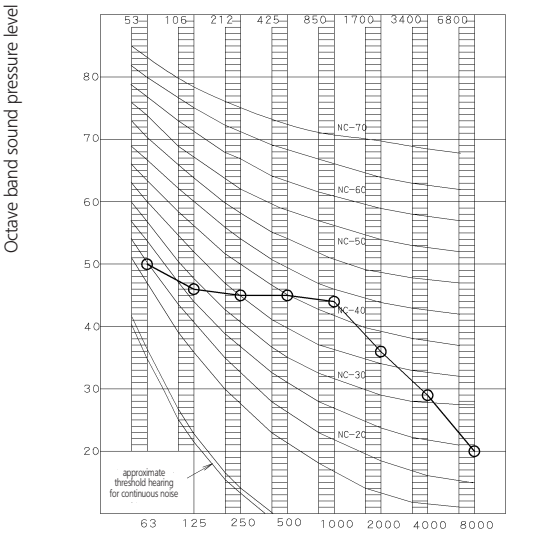
RXG25C (Heating)



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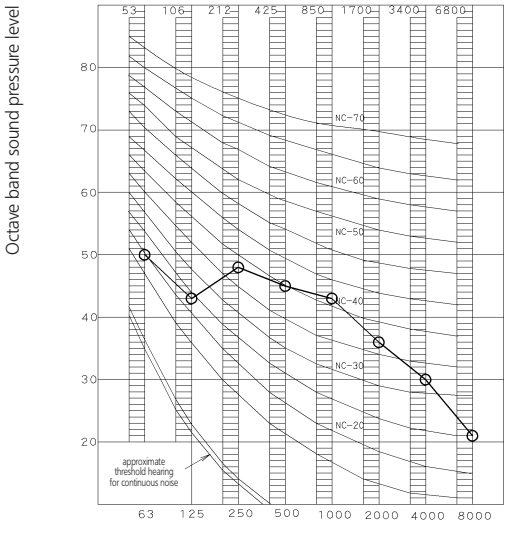
RXG35C (Cooling)



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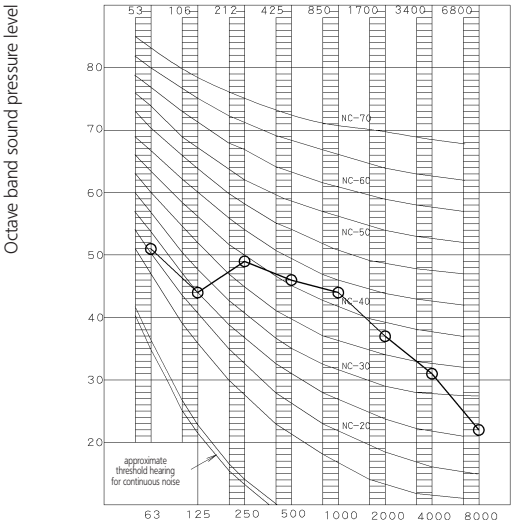
RXG35C (Heating)



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Legend

50/60Hz, 220-240/220-230V

NOTES

1. Operation sound is measured in an anechoic chamber.
2. Operation sound level differs with operation and ambient conditions.
3. Reference acoustic pressure 0dB = 20Pa

9 Accessories

9-1 Standard accessories

RXG-C

See installation manual

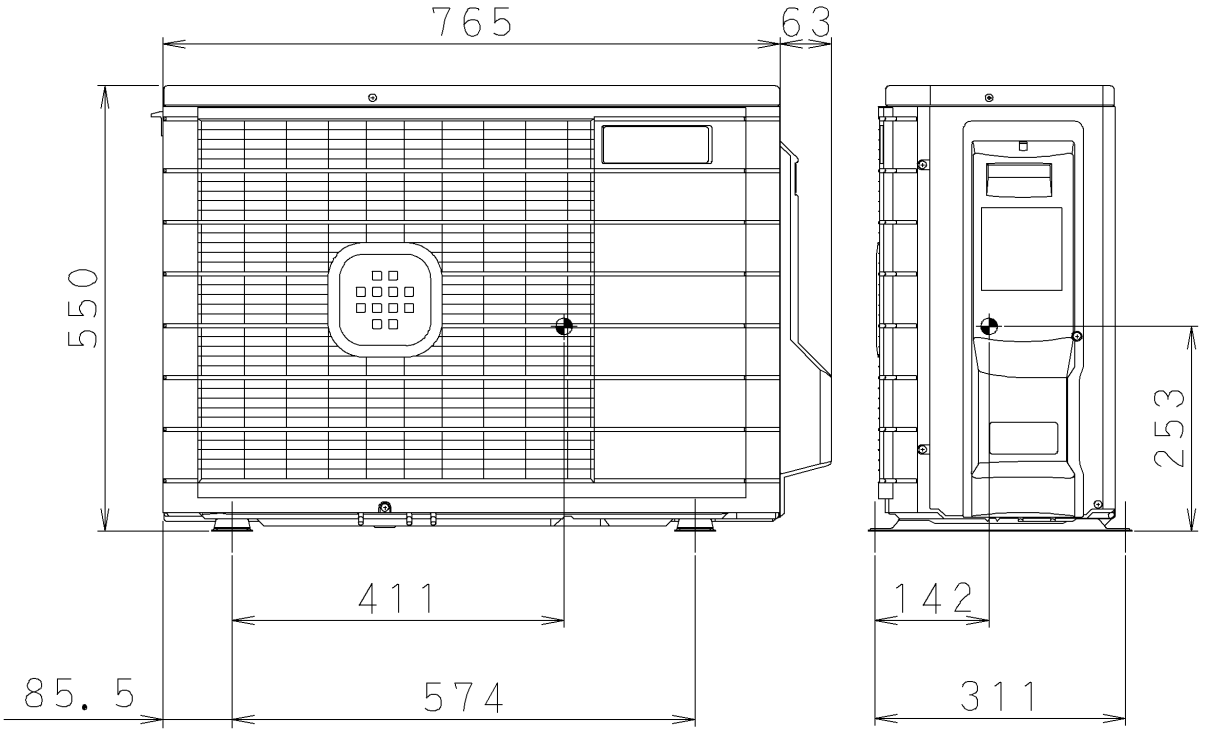
9-2 Optional accessories

RXG-C

	RXG25CVMB	RXG35CVMB
Air direction adjustment grille	KPW937A4	

10 Center of gravity

RXG25,35C



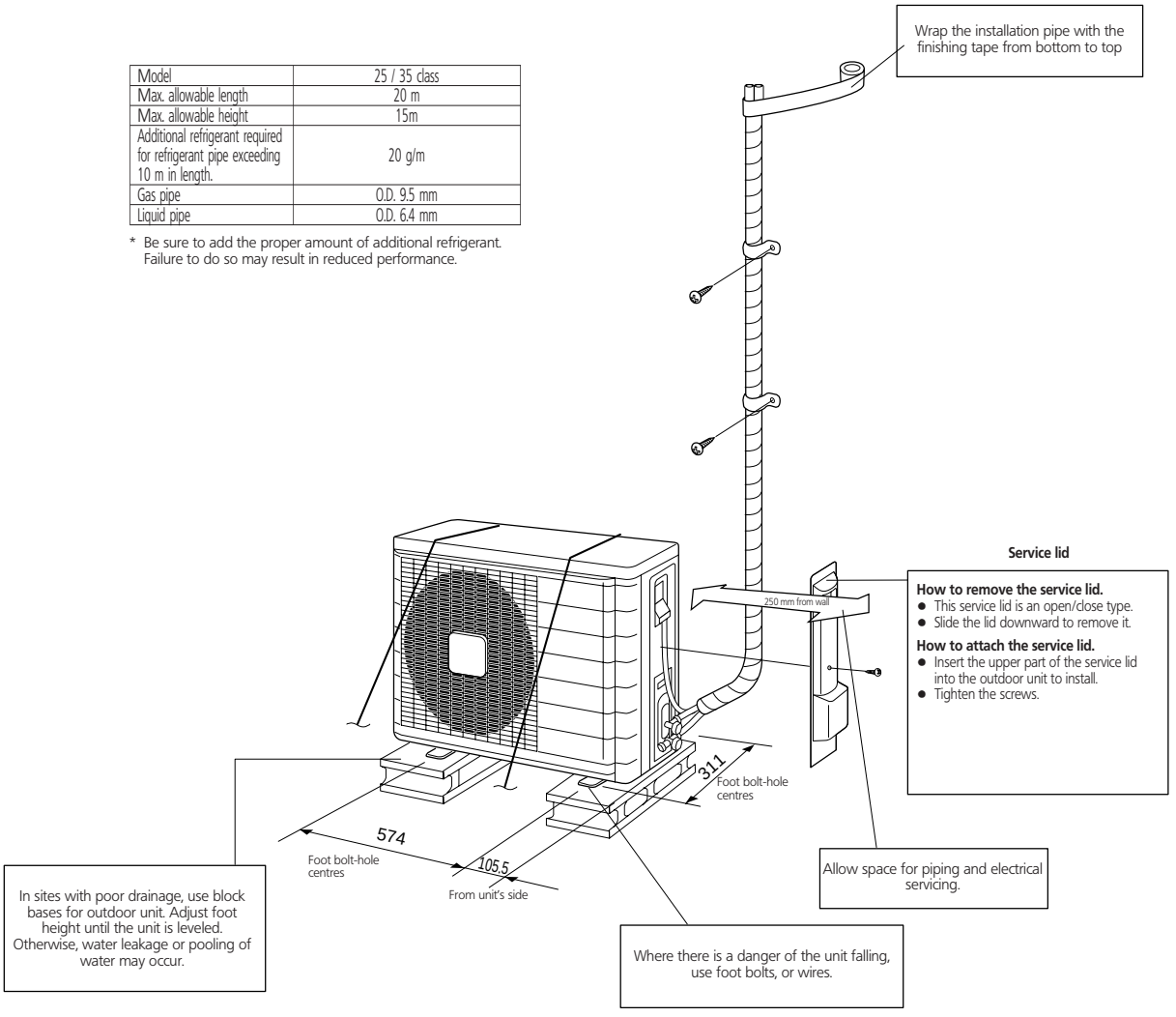
11 Installation

RXG25,35C

Outdoor unit installation drawings

Model	25 / 35 class
Max. allowable length	20 m
Max. allowable height	15m
Additional refrigerant required for refrigerant pipe exceeding 10 m in length.	20 g/m
Gas pipe	O.D. 9.5 mm
Liquid pipe	O.D. 6.4 mm

* Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.


Wrap the installation pipe with the finishing tape from bottom to top
Service lid
How to remove the service lid.
This service lid is an open/close type.
Slide the lid downward to remove it.
How to attach the service lid.
Insert the upper part of the service lid into the outdoor unit to install.
Tighten the screws.
250 mm from wall
311
Foot bolt-hole centres
574
Foot bolt-hole centres
105.5
From unit's side
In sites with poor drainage, use block bases for outdoor unit. Adjust foot height until the unit is leveled. Otherwise, water leakage or pooling of water may occur.
Allow space for piping and electrical servicing.
Where there is a danger of the unit falling, use foot bolts, or wires.

unit (mm)